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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/821,758	04/09/2004	David T. Marquardt	004.0050	1870
	7590 08/13/200 ISHER & LORENZ, P	•	EXAM	1870 EXAMINER MORGAN, EILEEN P PAPER NUMBER DELIVERY MODE
7150 E. CAMELBACK, STE. 325 SCOTTSDALE, AZ 85251			MORGAN, EILEEN P	
SCOTTSDALE	2, AZ 83231		ART UNIT	PAPER NUMBER
		, .	3723	
			MAIL DATE	DELIVERY MODE
			08/13/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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		Application No	. Applicant(s)
Office Action Summary		10/821,758	MARQUARI	OT ET AL.
		Examiner	Art Unit	
		Eileen P. Morga	<u> </u>	
	The MAILING DATE of this commu			ce address
WHIC - Exte after - If NC - Failu Any earn	ORTENED STATUTORY PERIOD IN CHEVER IS LONGER, FROM THE INSIDE OF THE PROPERIOD IN CHEVER IS LONGER, FROM THE INSIDE OF THE PROPERIOR OF THE PR	MAILING DATE OF THIS Co s of 37 CFR 1.136(a). In no event, how munication. statutory period will apply and will expire by will, by statute, cause the application	OMMUNICATION. vever, may a reply be timely filed SIX (6) MONTHS from the mailing date of the become ABANDONED (35 U.S.C. § 1)	of this communication.
Status	·			
1)🛛	Responsive to communication(s) file	ed on <u>09 April 2004</u> .		
2a)	This action is FINAL .	2b)⊠ This action is non-fir		
3)	Since this application is in condition closed in accordance with the practice.			
Disposit	ion of Claims			
5)□ 6)⊠ 7)⊠	Claim(s) 1-25 is/are pending in the 4a) Of the above claim(s) 15-23 and Claim(s) is/are allowed. Claim(s) 1-7,9,11-14 and 24 is/are Claim(s) 8,10 is/are objected to. Claim(s) are subject to restrict the claim(s) are subject to restrict to	<u>d 25</u> is/are withdrawn from c		
Applicat	ion Papers			
9) 🗌 10) 🔲	The specification is objected to by the transfer of the drawing(s) filed on is/are applicant may not request that any objected from the oath or declaration is objected to the specific or declaration is objected to be the specific or declaration is objected	e: a) accepted or b) ob ection to the drawing(s) be held g the correction is required if the	I in abeyance. See 37 CFR 1.85 ne drawing(s) is objected to. See	37 CFR 1.121(d).
Priority (under 35 U.S.C. § 119			
12) 🗌 a)	Acknowledgment is made of a claim All b) Some * c) None of: 1. Certified copies of the priority 2. Certified copies of the priority 3. Copies of the certified copies application from the Internations See the attached detailed Office actions	y documents have been reco y documents have been reco s of the priority documents h onal Bureau (PCT Rule 17.2	eived. eived in Application No ave been received in this Nat 2(a)).	
Attachmen	t(s)			
2) Notice 3) Information	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (mation Disclosure Statement(s) (PTO/SB/08) or No(s)/Mail Date		Paper No(s)/Mail Date Notice of Informal Patent Application	n

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 3,4,5,11,13,24 rejected under 35 U.S.C. 102(b) as being anticipated by White-6,435,941.

White discloses a load cup mechanism comprising a pivot arm with a workpiece platform (706) with a peripheral load ring (outer periphery), a plurality of lift fingers (722) a plurality of guide fingers (724), and a support ring (702), wherein fluid is supplied through pins (408).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 6,7,9,12,14 rejected under 35 U.S.C. 103(a) as being unpatentable over White, alone.

IN regard to claim 6, White does not disclose the support ring having spokes.

However, the guide fingers (724) provide a spoke structure and therefore to have a spoke structure on the support ring would be an obvious design expedient in providing

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additional central support. In regard to claim 9, White discloses an o-ring (721) disposed between the support ring and load ring but not a plurality of springs. However, the o-ring provides dampening and therefore, it would have been obvious of one of ordinary skill in the art at time invention was made to provide a plurality of dampening members, such as springs, since both perform equally well and are within the level of ordinary skill. In regard to claim 12, White uses the fluid flow through pins (408) to determine presence of wafer and not a gravity sensor. However, any known device, such as a gravity sensor or fluid flow, would have been obvious to one of ordinary skill in the art at time invention was made since they would perform equally well and the choice of either would be within the level of ordinary skill. In regard to claim 14, it would have been obvious to one of ordinary skill in the art at time invention was made provide the fingers with a pivot mechanism in order to properly position fingers while loading or unloading wafer.

Claims 2 rejected under 35 U.S.C. 103(a) as being unpatentable over White in view of Hempel et al.-6,227,950.

White does not disclose guide posts spaced about periphery. However, Hempel teaches a wafer conveyor with a loading mechanism comprising a holder (22) with a plurality of guide posts (86) to properly align and guide wafer. Therefore, it would have been obvious of one of ordinary skill in the art at time invention was made to provide White with a plurality of guide posts, as taught by Hempel, in order to properly align wafer in holder.

Allowable Subject Matter

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Claims 8 and 10 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eileen P. Morgan whose telephone number is 571.272.4488. The examiner can normally be reached on Monday-Thursday, 7am-3:30pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Hail can be reached on 571.272.4485. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

EM July 31, 2007

> /Eileen P. Morgan/ Primary Examiner, AU 3723